Name Q1 - Describe this code line-by-line. 1 first name = ["Pierre", "Paul", "Jacques"].sample 2 last_name = "Paillard" 3 puts "Great! #{first name} #{last name} is born" 1. 2. 3. Q2 - What's a constructor initialize? When is it called and what's its purpose? Q3 - Consider this code. What's the difference between string and string? 1 string = String.new("Hello World") Q4 - What does this method do? 1 def mystery_method(pets) 2 mammal pets = [] 3 for pet in pets 4 mammal pets << pet if pet.mammal?</pre> 5 $\quad \text{end} \quad$ 6 return mammal pets 7 end

Q5 - Re-implement previous method <code>mystery_method</code> using a nice <code>iterator</code> instead.

		the class of the elements of the 'pets' array according to you? Implement the class a constructor and an instance method 'mammal?' so that it works with the
	tery_me	
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07	\\/rito.o	alogo D. which inherita from D. 1. 1. What should be its 'mammal?' method?
Q1 -	write a	class Dog which inherits from Animal. What should be its `mammal?` method?
		
Q8 -	What's	special with the overview method? Is it a class method or an instance method?
		on with swim.
1	class	
2	def	self.overview()
3	re	eturn "Fishes can live in the sea"
4	end	
5		swim
6		I'm swimming
7	end	
8	end	
b		
Q9 -	Please,	write some code calling both methods overview and swim.
P		
<u>:</u>		

Q10 - Let's define 2 classes, Liquid and Alcohol.

```
1 class Liquid
2
   def drink
3
     puts "You drank some liquid"
   end
4
5
   def evaporate
 6
     puts "There is no more liquid"
7
     end
8 end
9
10 class Alcohol < Liquid
   def drink
11
12
     puts "You are now drunk"
   end
13
14 end
```

What is printed line 2 and 3 of the following ruby script?

```
beer = Alcohol.new
beer.drink
beer.evaporate
```

```
2.
3.
```

```
1 class Liquid
 2
    def drink
 3
   puts "You drank some liquid"
 4
   end
 5
    def evaporate
     puts "There is no more liquid"
 6
 7
     end
 8 end
9
10 class Alcohol < Liquid
   def drink
11
     super
12
     puts "You are now drunk"
14
     end
15 end
```

Same question with this new drink method. What is printed on line 2 and 3.

```
1 beer = Alcohol.new
2 beer.drink
3 beer.evaporate
```

```
2.
3.
```
